

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/501, 03A
Source: JFWO
Date Processed by STIC: 11/04/2005

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:27

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

3 <110> APPLICANT: Bristol-Myers Squibb Company
 5 <120> TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR
 PREDICTING

6 ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASES
 7 AND/OR PROTEIN TYROSINE KINASE PATHWAYS

9 <130> FILE REFERENCE: D0185 PCT

C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/501,035A

C--> 11 <141> CURRENT FILING DATE: 2005-05-02

11 <150> PRIOR APPLICATION NUMBER: US 60/350,061

12 <151> PRIOR FILING DATE: 2002-01-18

14 <160> NUMBER OF SEQ ID NOS: 795

16 <170> SOFTWARE: PatentIn version 3.2

18 <210> SEQ ID NO: 1

19 <211> LENGTH: 4103

20 <212> TYPE: DNA

21 <213> ORGANISM: Homo sapiens

23 <400> SEQUENCE: 1

24 tgtggcgacg gcggcagctg tggccccggc gccagcgccc ggcaaggaca ggcctctctc 60
 26 ggtgcactgg ttccgcaaag ggctgcgact ccacgacaac ccggcggttc tggcggcgt 120
 28 gcgcggggcg cgtgcgtgc gctgcgttta cattctcgac ccgtggttcg cgccctctc 180
 30 ctcaagtcggg atcaaccgat ggaggttctt acttcagtct ctggaagatt tggacacaag 240
 32 tttaaggaaa ctgaactccc gcctgtttgt agtccgggga cagccagccg acgtgttccc 300
 34 aaggctgttc aaggaatggg gaggtagccc cttgaccttt gaatatgact ctgaaccttt 360
 36 tgggaaagaa cgggatgcag ccatcatgaa gatggccaag gaggctggtg tgggaagtagt 420
 38 gacgggagaat tctcataccc tctatgacct ggacaggatc attgagctga atgggcagaa 480
 40 gccacccctt acatacaagc gctttcaggc catcatcagc cgcattggagc tgcccaagaa 540
 42 gccagtgggc ttggtgacca gccagcagat ggagagctgc agggccgaga tccaggagaa 600
 44 ccacgacgag acctacggcg tgccctccct ggaggagctg ggggtcccca ctgaaggact 660
 46 tgggtccagct gtctggcagg gaggagagac agaagctctg gcccgcctgg ataagcactt 720
 48 ggaacggaag gcctgggttg ccaactatga gagacccga atgaacgcca actccctctt 780
 50 ggccagcccc acaggcctca gccctacct gcgctttggt tgtctctctt gccgcctctt 840
 52 ctactaccgc ctgtgggacc tgtataaaaa ggtgaagcgg aacagcacac ctccctctc 900
 54 cctatttggt caactcctat ggcgagagtt cttctacacg gcagctacca acaaccccag 960
 56 gtttgaccgc atggaggga acccatctg catccagatc ccctgggacc gcaatcctga 1020
 58 ggccctggcc aagtgggctg agggcaagac aggtctccct tggattgatg ccatcatgac 1080
 60 ccaactgagg caggagggtt ggatccacca cctggcccgg catgccgtgg cctgcttctt 1140
 62 gaccgcgggg gacctctggg tcagctggga gaggcgggtc cgggtatttg atgagctgct 1200
 64 cctggatgca gatttcagcg tgaacgcagg cagctggatg tggctgtcct gcagtgtctt 1260
 66 cttccagcag ttcttccact gctactgcc tgtgggcttt ggccgtcgca cggaccccag 1320
 68 tggggactac atcaggcgat acctgccc aaattgaaagcg tccccctctc gatacatcta 1380
 70 tgagccctgg aatgccccag agtcaattca gaaggcagcc aagtgcattca ttggtgtgga 1440
 72 ctaccacagg cccatcgtca accatgccga gaccagccgg cttaacattg aacgaatgaa 1500
 74 gcagatttac cagcagcttt cgcgtaccg gggactctgt ctactggcat ctgtcccttc 1560
 76 ctgtgtggaa gacctcagtc accctgtggc agagcccagg tcgagccagg ctggcagcat 1620

CP9-6)

RAW SEQUENCE LISTING

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:27

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

```

78 gagcagtgca ggcccaagac cactacccag tggcccagca tccccaaac gcaagctgga 1680
80 agcagccgag gaaccacctg gtgaagaact cagcaaacgg gcccggtgg cagagttgcc 1740
82 aaccccagag ctgccgagca aggatgctg agactgcaga gcccttgctc cgtgagcaaa 1800
84 gcctgggtgc ccaagcagcc accgcagcag cagagtacaa cctgcagaga agctgatcac 1860
86 cgggcagaga tagagcgagc atgtgtgtgt gtgtgcgcgt gtgcagagga gggagtgggtg 1920
88 tgcctgtttg tgtgtgcatg catctgttga cactcatgat tctgaatggt gccctgggctg 1980
90 ggggagtagc tgtagcacgc cagtgtgtgt tcccggcctc cagacacaag gctcgagggtt 2040
92 atggcagtga ctttcagctg agacctgttc ctgcaagcca gctgccttgt ctgaacagaa 2100
94 cgtagtggta ggacctagc tgggattctg gcatctgcct ccttagacct ctttccctcc 2160
96 ctctcacgt caggctgtgg agcaggagca cagcagttct ggctgttgct caaagcatgg 2220
98 gattctggag gcagccagag cctgtctgag ttctgtcttt ctgacctgga ggctgagcag 2280
100 gccggagtgg atggatgctg tccagacgta gccacctggc ctctgtttct tattttaaaa 2340
102 ttctctgcta ctgggctcag tcccaggccc ttcttgggc ttctgggact gagcatgagg 2400
104 ccatagacag atctaaaaag tttccaccac cctacagaag tacacacaga tacctgactg 2460
106 gtgtggggta tgcctggtac tgtaatagga gcctaagaca gcacacctac cttttcagga 2520
108 tttagaacct aaaattagaa agagaatccc agctgtcatt gttccttccc cagaagctaa 2580
110 gagccagcct cagagcctac ccaggagctg tgaaggggca agggtcaaac tgactcactc 2640
112 taccaggagg agaccaggtt gcagtggcgt aaggccccct ggtttctctg gccacactcc 2700
114 aaggcaccac agtgtgccca gtgaggacag ctgacacca gccagggaaa ccattctagt 2760
116 ctttattctg ttggcttcca gggcctgtcc tggacttgct agcatccaga ctgccatgtc 2820
118 agctatccca gtagctgagc tccaaggact caggcagagg gactcaggga tggggactgc 2880
120 caggggcagt tggcaaaagt ccaagtagag attacacca gcacaccatt cttccagga 2940
122 gcagtagggt ggaggtttga ccagagaag ccaatccttg cattccagga gtggcctgtg 3000
124 cctcccacct cttccttccc actgccaaag gcctgtgttg agaaagatgt catgcaaaag 3060
126 gacgacggtg gccaaactaa gcaagtcttc cttccacctt gtggcctgca cttgagccac 3120
128 aaagtgtgtg tgtgtgtgtg cgtgtgtgtg acgtgtgtgt gtgtgtggct atgaggctga 3180
130 ttctgttttg gatttttctg ctacgtgta tcattaagct ggcccttggg ctttttctt 3240
132 tctacctccc ctgtgacctt tctagcctc agatctgtta attcttttg cccagccct 3300
134 gtccctcact gtctctgtgc cttggaccag aacctgggg tcagacccat ctctgttagc 3360
136 tgtccatcac actgacaggc ttcttctga gatatctca ggttttctca gccagagagc 3420
138 tgcctttaga gtccaactgt tgtacgtatg tcaccttcac tagaaatgtc ccatcatcgt 3480
140 gggaggggag cagggcacag gggatggtgt gcattcagag cattggggtt ggggcttccc 3540
142 tgttccctca gcccagtcg agaggaaaga gaatcgggcc actgccagaa agagagtcaa 3600
144 gcaaacctgg aagggcaaat ctgagagtgg gaaggccaaa ggccgaggcc cagatttagt 3660
146 attcactagc agcgccttcg ggtagcagga tgattccttt tctgctgtgt ctgctgctgg 3720
148 ctctcttccc taaggtagag gttggcagga ccacctccgc ctacttctcc accatcccta 3780
150 gcatgccagc ccgttcccag atcaacctgc cagtggagtc aggcagtgca ctctggagc 3840
152 caagagggaa gggcagggta gagagggtat gtccagtagc ctggagctcc atgggtggctt 3900
154 catgcctccc ttctcccagc tcagggtggc ctgagggctc cctcggaaca gtgcctcaaa 3960
156 tcctgaccca agggccagca tggggaagag atggttgtag gcaaaatgca ctttatagag 4020
158 attttctatt gctgggaagg tgtgtttctc ccacaatttg tttgtgaata ttcacttggt 4080
160 ttataaatgt ctgacctgtc ttg 4103
163 <210> SEQ ID NO: 2
164 <211> LENGTH: 2358
165 <212> TYPE: DNA
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 2
169 ggagaggatc ccggagccgg tgagaattct ctgttttttc tctaccatcc tttccaggcc 60
171 ttttctcac ctaatgagtc gtagagacga gggcccagag agtctgtaaa gtggctgggtg 120

```

RAW SEQUENCE LISTING

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:27

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

```

173 aaagattagt gtcccagggc cctacatccg ggaggtggtt cgggataaag agaactagtc 180
175 ttgggaacaa ttaggtggg aacttaaggg aatgggagag cggcccatag aggtggacgg 240
177 agggcgcgat tggagtaaag cggaccctgt gtaggtatag agttgagtc aagtgagtc 300
179 ctgcctctgt cctcttggtc agcgtgatgg ccagaggcct ggggggcccc cactgggtgg 360
181 ccgtgggact gctgacctgg gcgaccttgg ggcttctggt ggctggactc gggggtcactg 420
183 acgacctgca cgcgatctg caagaggact tccatggcca cagccacagg cactcacatg 480
185 aagatttcca ccatggtcac agccatgccc atgggtcatg ccacactcac gagagcatct 540
187 ggcattggaca taccacgat cagaccatg gacattcaca tgaggattta caccatggcc 600
189 atagccatgg ctactcccat gagagcctct accacagagg acatggacat gaccatgagc 660
191 atagccatgg aggtatggg gagtctgggg ctccaggcat caagcaggac ctggatgctg 720
193 tcaactctctg ggcttatgca ctgggggcca cagtgtgat ctgagcagct ccattttttg 780
195 tctcttctct tatccccgtg gactcgaact ctccccggca tcgctctcta cttcagatct 840
197 tgctcagttt tgcttccggg gggctcctgg gagatgcttt cctgcacctc attcctcatg 900
199 ctcttgaacc tcattctcac cacactctgg agcaaccggg acatggacac tcccacagtg 960
201 gccagggccc cattctgtct gtgggcctgt ggggttctcag tgggaattgtt gcctttcttg 1020
203 tcgtggagaa atttgtgaga catgtgaaag gaggacatgg tcacagtcac ggacatggac 1080
205 acgtcacag tcatacacgt ggaagtcatg gacatggaag acaagagcgt tctaccaagg 1140
207 agaagcagag ctgagaggaa gaaggaaagg aaacaagagg ggttcagaag aggcgaggag 1200
209 ggagcacagt acccaaagat gggccagtga gacctcagaa cgctgaagaa gaaaaaagag 1260
211 gcttagacct gcgtgtgtcg gggtaacctg atctggctgc tgacttggca cacaacttca 1320
213 ctgatggtct ggccattggg gcttcccttc gagggggcgg gggactaggg atcctgacca 1380
215 caatgactgt cctgtacat gaagtgcctc acgaggctgg ggactttgcc atcttggctc 1440
217 agtctggctg caccaaaaag caggcgatgc gtctgcaact actgacagca gtaggggcac 1500
219 tggcaggcac agctgtgccc ttctcactga aggaggagca gtggacagtg aaattgcagg 1560
221 tgggtgcagg cctggctggg tcctgccatt tactgcaggg ggctttatct acgtagcaac 1620
223 agtgtctgtg ttgcccagag tgctgaggga ggcacacca ttgcaatcac ttctggagg 1680
225 gctggggctg ctggggggag ttatcatgat ggtgtgatt gccaccttg agtgagggg 1740
227 ggataaacta cctgcccc aacctctacc ctaactcca ggtcaggggt gcgtagagg 1800
229 tggggggcct ggccagggac atctgcaaaa ggaaggaaact gtagcctggg agcaatgggt 1860
231 actttggcat tagggccttc aagggtctgg agtcttacag aggcctggag ggtgagaatg 1920
233 agaggccaga gggaccatag tgttgggcac tgtctgacca tgttgcat 1980
235 atggggccat gaagaaggct ggaagggaca gggggtgatg gcagcctacc tgggtgtccc 2040
237 taccacacct gttctcggag aaccaagttg ctacacagga agttctccaa ggtccagtt 2100
239 cctttctccc accagttggt ggaggcttca gggaagacca gactcctgga cagagagggt 2160
241 aacaggagga gtcggggata aacatcaaac atcaatcgtg tgcctgatt tgggagtgat 2220
243 tgggggggat ggggtgggaga ggggttaattg gtattctcat ggctgattt tttttgttc 2280
245 tattcctttt atatcactgt gtttgaatcg agggggaggg gtggttaaccg gaaataaaga 2340
247 cctccgatct tccgcccc 2358
250 <210> SEQ ID NO: 3
251 <211> LENGTH: 1547
252 <212> TYPE: DNA
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 3
256 ggggacttct tgaacttgca gggagaataa cttgcgcacc ccactttgog ccggtgcctt 60
258 tgccccagcg gagcctgctt cgcctctcc gagccccacc gcccctccac tctcggcct 120
260 tgccccagac tgagacgctg tccccagcgt gaaaagagag actgcgcggc cggcaccggg 180
262 gagaaggagg aggcaaagaa aaggaaacgga cattcggtcc ttgcgccagg tcttttgacc 240
264 agagtttttc catgtggacg ctctttcaat ggacgtgtcc ccgctgctt cttagacgga 300
266 ctgcggtctc ctaaaggctg accatggtgg ccgggacccg ctgtcttcta gcgttgcctg 360

```

RAW SEQUENCE LISTING

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:27

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

```

268 ttccccaggt cctcctgggc ggcgcggctg gcctcgttcc ggagctgggc cgcaggaagt 420
270 tcgcggcggc gtgcgcgggc cgccctcat ccagccctc tgacgaggtc ctgagcgagt 480
272 tcgagttgcg gctgctcagc atgttcggcc tgaaacagag acccaccccc agcagggacg 540
274 ccgtggtgcc cccctacatg ctagacctgt atcgaggca ctcaggtcag ccgggctcac 600
276 ccgccccaga ccaccggtg gagaggcgag ccagccgagc caacactgtg cgcagcttcc 660
278 accatgaaga atctttggaa gaactaccag aaacgagtg gaaaacaacc cggagattct 720
280 tctttaattt aagttctatc cccacggagg agtttatcac ctcagcagag cttcaggttt 780
282 tccgagaaca gatgcaagat gctttaggaa acaatagcag tttccatcac cgaattaata 840
284 tttatgaaat cataaaacct gcaacagcca actcgaaatt ccccgtagcc agacttttgg 900
286 acaccaggtt ggtgaatcag aatgcaagca ggtgggaaag ttttgatgtc acccccgtcg 960
288 tgatgcggtg gactgcacag ggacacgcca accatggatt cgtggtggaa gtggcccact 1020
290 tggaggagaa acaaggtgtc tccaagagac atgttaggat aagcaggtct ttgcaccaag 1080
292 atgaacacag ctggtcacag ataaggccat tgctagtaac ttttggccat gatggaaaag 1140
294 ggcatacctc ccacaaaaga gaaaaacgtc aagccaaaca caaacagcgg aaacgcctta 1200
296 agtccagctg taagagacac cctttgtacg tggacttcag tgacgtgggg tggaatgact 1260
298 ggattgtggc tccccggggg tatcacgcct tttactgcc aaggagaatgc ccttttcctc 1320
300 tggtgatca tctgaactcc actaatcatg ccattgttca gacgttggtc aactctgtta 1380
302 actctaagat tctaaggca tgcgtgtgtc cgacagaact cagtgtctatc tcgatgctgt 1440
304 accttgacga gaatgaaaag gttgtattaa agaactatca ggacatggtt gtggagggtt 1500
306 gtgggtgtcg ctagtacagc aaaattaaat acataaatat atatata 1547
309 <210> SEQ ID NO: 4
310 <211> LENGTH: 4834
311 <212> TYPE: DNA
312 <213> ORGANISM: Homo sapiens
314 <400> SEQUENCE: 4
315 cggcgccgc gggctgggag cgggggcccg caggtggaag cgcacccggg aggcgggccc 60
317 gccggggctg ggcgggctcg ggcgggctct tgacgctcag ccagcttcgc tccggcctcg 120
319 ggaaggcgcg cgtcccgccc tgaccgcgcg gcctctccca cccagcagc gacgcgccgc 180
321 ctgggagctg gagcccgcgc agcgcgccgc agggcgatgg acggccgaac cccgcgcccg 240
323 caggacgccc cagccaggag aaaaccaaaa gccaaaggac cacttcctcc agctgagacc 300
325 aaatatactg atgtctcttc agctgctgat tctgtagaat ccactgcttt catcatggaa 360
327 cagaaagaaa acatgataga taaagacgtt gaactctcag tggctctacc tggggatatt 420
329 atcaaatcta ctactgttca tggcagtaaa cctatgatgg acttggtgat attcctttgt 480
331 gcacagtatc acttaaatec atcaagttac acaatcgatc tgttgtcagc tgaacagaac 540
333 cacattaaat ttaagccaaa cacaccaata ggaatgttgg aggtagagaa ggtaatttta 600
335 aagccaaaaa tgttggataa gaaaaaacct acacctataa taccagagaa aactgtgaga 660
337 gtagtgatta attttaagaa aacacagaag accatagtga gagtgaatcc acatgcacg 720
339 cttcaagagc ttgccctat tatatgtagc aaatgtgagt ttgatccgtt gcataacta 780
341 ttgttgaaag attatcaatc gcaggagcct cttgacttga caaaatctct taatgacctg 840
343 ggactaagag aattatatgc gatggatgtc aacagagagt cctgccaaat atcacaaaac 900
345 ctagatatta tgaaggagaa agaaaataaa gggtttttca gtttttttca acgcagtaag 960
347 aaaaagcgag accaaactgc aagtgcacct gcaaccctc tagtaaataa gcaccgccc 1020
349 actttttaca ggtccaatac catttccaaa ccataatatt ccaacaccct gccgtcggat 1080
351 gcacccaaga agaggcgggc tccactgcc ccgatgccag catctcagag tgtcccccaa 1140
353 gaccttgcac acatccagga gaggcctgct tcttgtagag tgaatccat gagcgtggat 1200
355 gagacagata agagtcctcg tgaagcagga agagtgaagg caggttccat gcagctcagc 1260
357 agcatgtctg cagggaattc atctttgaga aggacaaagc gaaaagcacc ttccccaccc 1320
359 tccaaaatac ccccgcatca aagtgatgaa aatagtcgtg tgactgcctt acagccagta 1380
361 gatggagttc ctccagacag tgcttcagaa gcaaacctct ctgaggagct atccagccca 1440

```

RAW SEQUENCE LISTING

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:27

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

```

363 gaaacctttc accctgggct ttccagtcag gagcagtgca ctgcgccccaa actgatggag 1500
365 gaaacctctg tctttgagtg ccttgggaca cctgaggcag ccataacatc attgacatct 1560
367 ggaataagct ctgattatag ccttgaagag atagatgaaa aggaagaact gagtgaagtg 1620
369 cctaaagttg aagctgaaaa tatttctccg aagtcacaag atattccttt tgtatctact 1680
371 gatataataa atacactgaa aaatgatcct gactcagccc ttggcaatgg tagtggagag 1740
373 ttctcacaaa actccatgga agaaaaacaa gaaactaaaa gcacagatgg acaagaacca 1800
375 cacagtgtag tatatgatac aagcaatgga aagaaggtag ttgacagtat aagaaacttg 1860
377 aagtcgttgg gcccaaacca agagaatggt caaaatgaaa taattgtcta tccagagaac 1920
379 acagaagaca atatgaaaaa tggagtgaag aaaacagaaa tcaatgtaga aggtgttgcc 1980
381 aaaaataaca acattgatat ggaagttgag agaccatcaa actctgaggc acatgaaact 2040
383 gatactgcta taagttacaa ggaaaaccat ctagcagctt catcagtacc agatcaaaaa 2100
385 ctgaatcaac ccagtgcaga aaagacaaaa gatgcagcaa ttcagacaac ccttcttgt 2160
387 aacagttttg atgggaaaca ccaagatcat aatttatctg actccaaagt tgaagaatgt 2220
389 gtgcaaactt caaataacaa catatcaact caacactcat gcttaagttc acaagattct 2280
391 gtaaatacct caaggggaatt caggagtcaa ggcacctaa ttatacattc agaagatccg 2340
393 cttaccgtaa aagatccaat ttgtgcacat ggtaatgatg atcttttgcc tctgtagat 2400
395 aggattgaca aaaattccac tgcttcttac ctaaagaatt acccaacttta tagacaggac 2460
397 tacaatccca agccaaaacc ttcaaataaa attacacgag agtatatacc caaaattggc 2520
399 atgactactt ataaaatagt gcttcccaaa tcttggaaa tatcgaaaga ctggcaatca 2580
401 gaaaccatag agtataaaga tgatcaggac atgcatgctt tagggaaaaa gcacactcat 2640
403 gagaatgtga aagaaactgc catccaacaa gaagattctg ctatttctga aagcccagaa 2700
405 gagccactgc caaaccttaa accgaagcct aacctgagaa cagagcatca agtgcccagt 2760
407 tctgtgagct cacctgatga tgccatgggt agtctctga aacctgctcc caaaatgaca 2820
409 agagacactg gcacagctcc ttttgcacca aatttggaa agataaacia tattttggaa 2880
411 tcaaaattta aatctcgggc ttcaaataaa caggccaaac ccagctcttt tttttgacg 2940
413 atgcagaaga gagtatcggg tcaactatgtg acatctgcag ctgccaagag tgtccatgct 3000
415 gccctaatc ctgctccaaa agaactgaca aataaagagg cagaaaggga tatgctgct 3060
417 tctccggagc agactctttc tcccttaagt aaaatgcctc actctgttcc acaaccctt 3120
419 gttgaaaaaa ctgatgatga tgtcatcggt caggctcctg ctgaagcctc cctcctccc 3180
421 atagctccaa aacctgtgac aattcctgct agtcaggat ccacacaaaa tctgaagact 3240
423 ttgaaaactt ttgggtgccc acgaccatac tcaagttctg gtcttccacc gtttgctctt 3300
425 gctgtagtga aaaggtcaca gtctttcagt aaagagcgca ccgagtcacc tagtgccagt 3360
427 gcattgggtc aacctccagc caacacagag gaagggaaga ctcatctgt aaataaattt 3420
429 gtggacatcc cacagcttgg tgtgtctgat aaggaaaata actctgcaca taatgaacag 3480
431 aattcccaaa taccaactcc aactgatggc ccatcattca ctgttatgag acaaagttct 3540
433 ttaacattcc aaagctctga ccagaacag atgcgacaga gtttgctgac tgcaatccgt 3600
435 tcgggagagg ctgctgccaa attgaaaagg gttaccattc catcaaatac aatatctgtg 3660
437 aatggaaggc caagactcag ccattccatg tccctgatg ccaggacgg ccattaaatg 3720
439 ttacctgcc acaccactgc acttcacttc cacttcagac caacttcata ctaatggaac 3780
441 attttggcaa atgtatatcc agatgtacac taatatatta tctattaaaa tattagaatt 3840
443 tgtgttgggt cttttaatgc cagaagaaaa gttaccagaa tttataattt atagtaattt 3900
445 tttgatcttt tttttgctt aagagttgaa tatgctgctt tagaacttta aaacaagggtg 3960
447 taaatgattt tcaattttta caaatgaaaa ataattcctt tgtattgatt tcacttacca 4020
449 gcacattctc tacaatgggtg acttagacaa aagtataaga ttcatagact ttatatttgt 4080
451 atgacataca actaggacaa acatagatat gacatttgct gcctcagtgt agcaattgga 4140
453 aatatttata agttatatga aagcctgttt tgggctgaaa gaatgattta gaaaactagt 4200
455 gataccaaat aagtatattc agttcaataa ttattttcaa tgatgaatca cttagtgtga 4260
457 aagacttgcc ttgtgtattc tttatgtaat taaaaatcac tgtcaatttt atgggaagct 4320
459 catagtattt taatatattt ttaacatgga actcttggtt ttttaatttt tagaacttaa 4380

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/04/2005
PATENT APPLICATION: US/10/501,035A TIME: 11:51:28

Input Set : D:\D0185.pct.ST25.txt
Output Set: N:\CRF4\11042005\J501035A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 303
Seq#:36; N Pos. 438
Seq#:55; N Pos. 3347,3502,3506,3520,3538,3549,3646,3940,3968,3974,4036,4056
Seq#:55; N Pos. 4062,4080,4088,4115
Seq#:85; N Pos. 18225,18226,18227
Seq#:93; N Pos. 72,138,140,210,216,219,223,242,259,261,267,274,275,279,289
Seq#:93; N Pos. 293,510,524,535,548,567,575,580,593,614,634,663,678,679,686
Seq#:93; N Pos. 694,724,728,741,742,751,759,780,812,820,826,1105,1753,1969
Seq#:93; N Pos. 3603,3606,3615,3617,3624,3630,3642,3680,3696,3718,3722,3733
Seq#:93; N Pos. 3743,3745
Seq#:107; N Pos. 511,591,641,668
Seq#:109; N Pos. 262,574
Seq#:125; N Pos. 13,15,58,130,153,201,216,308,319,346,370,378,413,473,491
Seq#:125; N Pos. 503,523,527,535,541,581,586,596,603,619,624,634,643,668
Seq#:125; N Pos. 670,674,686,693,700,718,727,737,746,757,761,766,768,779
Seq#:125; N Pos. 781,789,792,797,800,801,802,818,829,836,843,861,870,871
Seq#:125; N Pos. 874,881,888,890,891,895,896,897,904,913,916
Seq#:132; N Pos. 170,262,314,384,404,422,427,509,520,528,538,578,605,606
Seq#:132; N Pos. 612,617
Seq#:154; N Pos. 365,547,572
Seq#:174; N Pos. 443
Seq#:176; N Pos. 258
Seq#:199; N Pos. 33,1427,1429,1435,1453
Seq#:367; Xaa Pos. 19

VERIFICATION SUMMARY

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:28

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:300
L:4341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:420
L:5959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:3300
L:5965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:3480
L:5967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:3540
L:5969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:3600
L:5979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:3900
L:5981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:3960
L:5983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:4020
L:5985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:4080
L:11165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:18180
L:12963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:60
L:12965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:120
L:12967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:180
L:12969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:240
L:12977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:480
L:12979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:540
L:12981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:600
L:12983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:660
L:12985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:720
L:12987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:780
L:12997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:1080
L:13019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:1740
L:13025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:1920
L:13081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:3600
L:13083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:3660
L:13085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:3720
L:14050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:480
L:14052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:540
L:14054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:600
L:14056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:660
L:14233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:240
L:14243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:540
L:16662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
L:16666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:120
L:16668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:180
L:16672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:300
L:16674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:360
L:16676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:420
L:16678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:480
L:16680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:540
L:16682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:600
L:16684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:660
L:16686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:720
L:16688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:780
L:16690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:840

VERIFICATION SUMMARY

DATE: 11/04/2005

PATENT APPLICATION: US/10/501,035A

TIME: 11:51:28

Input Set : D:\D0185.pct.ST25.txt

Output Set: N:\CRF4\11042005\J501035A.raw

L:16692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:900
L:17493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:120
L:17497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:240
L:17499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:300
L:17501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:360
L:17503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:420
L:17505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:480
L:17507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:540
L:17509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:600
L:22105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:360
L:22111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:540
L:24549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:420
L:24825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:240
L:27266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:0
L:27312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:1380
L:27314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:1440
L:54785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367 after pos.:16